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# 1 [TableSeer: automatic table metadata extraction and searching in digital libraries](#)

Ying Liu, Kun Bai, Prasenjit Mitra, C. Lee Giles  
June JCDL '07: Proceedings of the 2007 conference on Digital libraries  
2007

**Publisher:** ACM

Full text available: [pdf\(679.96](#)

[KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Tables are ubiquitous in digital libraries. In scientific documents, tables are widely used to present experimental results or statistical data in a condensed fashion. However, current search engines do not support table search. The difficulty of automatic ...

**Keywords:** accessibility, architectures, data management, information retrieval, knowledge organization, scientific application, system design

## 2 [A document corpus browser for in-depth reading](#)



Eric Bier, Lance Good, Kris Popat, Alan Newberger

June JCDL '04: Proceedings of the 4th ACM/IEEE-CS joint conference on Digital  
2004 libraries

**Publisher:** ACM

Full text available: [pdf\(164.61](#)

[KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),

[index terms](#)

Software tools, including Web browsers, e-books, electronic document formats, search engines, and digital libraries are changing the way people read, making it easier for them to find and view documents. However, while these tools provide significant ...

**Keyw ord s:** bookplex, computer-aided reading, digital library, document management, spatial memory, visualization, zoomable user interface

## 3 [Towards smarter documents](#)



Vikas Krishna, Prasad M. Deshpande, Savitha Srinivasan

November CIKM '04: Proceedings of the thirteenth ACM international conference on  
2004 Information and knowledge management

**Publisher:** ACM

Full text available: [pdf\(224.70](#)

[KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),

[index terms](#)

Document analysis research typically focuses on document image understanding or classic problems in text classification, clustering, summarization and discovery. While that is an important aspect of document management, in practice, documents lifecycles ...

**Keyw ord s:** classification, content, processes, workflow

## 4 [Reading patterns and usability in visualizations of electronic documents](#)



Kasper Hornbæk, Erik Frøkjær

June ACM Transactions on Computer-Human Interaction (TOCHI), Volume  
2003 10 Issue 2

**Publisher:** ACM

Full text available: [pdf\(4.18](#)

[MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index](#)

[terms](#), [review](#)

We present an exploration of reading patterns and usability in visualizations of electronic documents. Twenty subjects wrote essays and answered questions about scientific documents using an overview+detail, a fisheye, and a linear interface. We study ...

**Keywords:** Electronic documents, digital documents, fisheye interface, information retrieval, information visualization, overview+detail interface, reading, reading patterns

## 5 Fractal summarization for mobile devices to access large documents on the web



Christopher C. Yang, Fu Lee Wang

May WWW '03: Proceedings of the 12th international conference on World Wide Web Web

**Publisher:** ACM

Full text available:  [pdf\(317.55 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Wireless access with mobile (or handheld) devices is a promising addition to the WWW and traditional electronic business. Mobile devices provide convenience and portable access to the huge information space on the Internet without requiring users to ...

**Keywords:** document summarization, fractal summarization, handheld devices, mobile commerce


## 6 Print-n-link: weaving the paper web



Moira C. Norrie, Beat Signer, Nadir Weibel

October DocEng '06: Proceedings of the 2006 ACM symposium on Document engineering engineering

**Publisher:** ACM


Full text available:  [pdf\(1.00 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Citations form the basis for a web of scientific publications. Search engines, embedded hyperlinks and digital libraries all simplify the task of finding publications of interest on the web and navigating to cited publications or web sites. However the ...

**Keywords:** citation management, digital library, document integration, interactive paper

## 7 Editing with style

 Vincent Quint, Irne Vatton  
August 2007 DocEng '07: Proceedings of the 2007 ACM symposium on Document engineering  
**Publisher:** ACM


Full text available:  [pdf\(591.43 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

HTML has popularized the use of style sheets, and the advent of XML has stressed the importance of style as a key area complementing document structure and content. A number of tools are now available for producing HTML and XML documents, but very few ...

**Keywords:** CSS, document authoring, style languages, web editing

## 8 A multilevel approach to intelligent information filtering: model, system, and evaluation

 J. Mostafa, S. Mukhopadhyay, M. Palakal, W. Lam  
October 1997 ACM Transactions on Information Systems (TOIS), Volume 15 Issue 4  
**Publisher:** ACM


Full text available:  [pdf\(610.01 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#), [review](#)

In information-filtering environments, uncertainties associated with changing interests of the user and the dynamic document stream must be handled efficiently. In this article, a filtering model is proposed that decomposes the overall task into subsystem ...

**Keywords:** automated document representation, information filtering, user modeling

## 9 Qualitative decision making in adaptive presentation of structured information

 Ronen I. Brafman, Carmel Domshlak, Solomon E. Shimony  
October 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 4  
**Publisher:** ACM

Full text available:  [pdf\(6.00 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a new approach for adaptive presentation of structured information, based on preference-based constrained optimization techniques rooted in qualitative decision-theory. In this approach, document presentation is viewed as a configuration problem ...

**Keyw ords:** Adaptive information presentation, preference representation, qualitative decision theory

## 10 Robust annotation positioning in digital documents



A. J. Bernheim Brush, David Barger on, Anoop Gupta, J. J. Cadiz

March CHI '01: Proceedings of the SIGCHI conference on Human factors in  
2001 computing systems

**Publisher:** ACM

Full text available: pdf(397.50  
KB).

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#), [review](#)

Increasingly, documents exist primarily in digital form. System designers have recently focused on making it easier to read digital documents, with annotation as an important new feature. But supporting annotation well is difficult because digital documents ...

**Keyw ords:** annotation, annotation system design, digital, documents, robust

## 11 SlideSeer: a digital library of aligned document and presentation pairs



Min-Yen Kan

June JCDL '07: Proceedings of the 2007 conference on Digital libraries  
2007

**Publisher:** ACM

Full text available: pdf(1.33  
MB).

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Research findings are often transmitted both as written documents and narrated slide presentations. As these two forms of media contain both unique and replicated information, it is useful to combine and align these two views to create a single synchronized ...

**Keyw ords:** SlideSeer, digital library, fine-grained alignment, presentations (slides), synchronized media

## 12 [Reading of electronic documents: the usability of linear, fisheye, and overview](#)



### [+detail interfaces](#)

Kasper Hornbæk, Erik Frøkjær

March CHI '01: Proceedings of the SIGCHI conference on Human factors in computing systems

**Publisher:** ACM

Full text available: [pdf\(408.80 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Reading of electronic documents is becoming increasingly important as more information is disseminated electronically. We present an experiment that compares the usability of a linear, a fisheye, and an overview+detail interface for electronic documents. ...

**Keywords:** electronic documents, information retrieval, information visualization, reading activity, usability, user study

## 13 [An open-source CVE for programming education: a case study](#)



Andrew M. Phelps, Christopher A. Egert, Kevin J. Bierre, David M. Parks

July SIGGRAPH '05: ACM SIGGRAPH 2005 Courses

**Publisher:** ACM

Full text available: [pdf\(7.92 MB\)](#)

Additional Information: [full citation](#), [references](#)

## 14 [Optimization of html automatically generated by wysiwyg programs](#)



Jacqueline Spiesser, Les Kitchen

May WWW '04: Proceedings of the 13th international conference on World Wide Web

**Publisher:** ACM


Full text available: [pdf\(129.59 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Automatically generated HTML, as produced by WYSIWYG programs, typically contains much repetitive and unnecessary markup. This paper identifies aspects of such HTML that may be altered while leaving a semantically equivalent document, and proposes techniques ...

**Keywords:** dynamic programming, haskell, html optimization, wysiwyg

## 15 [Moving markup: repositioning freeform annotations](#)

 Gene Golovchinsky, Laurent Denoue  
October 2002 UIST '02: Proceedings of the 15th annual ACM symposium on User interface software and technology  
**Publisher:** ACM


Full text available:  [pdf\(576.12 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Freeform digital ink annotation allows readers to interact with documents in an intuitive and familiar manner. Such marks are easy to manage on static documents, and provide a familiar annotation experience. In this paper, we describe an implementation ...

**Keyw ords:** annotation, dynamic document layout, freeform digital ink, repositioning annotations

## 16 [Constraint cascading style sheets for the Web](#)

 Greg J. Badros, Alan Borning, Kim Marriott, Peter Stuckey  
November 1999 UIST '99: Proceedings of the 12th annual ACM symposium on User interface software and technology  
**Publisher:** ACM


Full text available:  [pdf\(121.86 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Cascading Style Sheets have been introduced by the W3C as a mechanism for controlling the appearance of HTML documents. In this paper, we demonstrate how constraints provide a powerful unifying formalism for declaratively understanding and specifying ...

**Keyw ords:** CCSS, CSS, Cassowary, HTML, cascading style sheets, constraints, page layout, style sheets, world wide web

## 17 [Extracting relevant named entities for automated expense reimbursement](#)

 Guangyu Zhu, Timothy J. Bethea, Vikas Krishna  
August 2007 KDD '07: Proceedings of the 13th ACM SIGKDD international conference on Knowledge discovery and data mining  
**Publisher:** ACM


Full text available:  [pdf\(1.16 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Expense reimbursement is a time-consuming and labor-intensive process across organizations. In this paper, we present a prototype expense reimbursement system that dramatically reduces the elapsed time and costs involved, by eliminating paper from the ...

**Keywords:** conditional random fields, document layout analysis, learning, named entity extraction

## 18 [Automatic extraction of titles from general documents using machine learning](#)

 Yunhua Hu, Hang Li, Yunbo Cao, Dmitriy Meyerzon, Qinghua Zheng  
June JCDL '05: Proceedings of the 5th ACM/IEEE-CS joint conference on Digital  
2005 libraries  
**Publisher:** ACM


Full text available:  [pdf\(371.16 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

In this paper, we propose a machine learning approach to title extraction from general documents. By general documents, we mean documents that can belong to any one of a number of specific genres, including presentations, book chapters, technical papers, ...

**Keywords:** information extraction, machine learning, metadata extraction, search

## 19 [Dynamic collaborative business processes within documents](#)

 Thomas B. Hodel, Harald Gall, Klaus R. Dittrich  
October SIGDOC '04: Proceedings of the 22nd annual international conference on  
2004 Design of communication: The engineering of quality documentation  
**Publisher:** ACM

Full text available:  [pdf\(335.58 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

Effective collaborate business process support is essential in today's business. In this paper, we address this aspect within documents. Often, such text documents are stored unsystematically in a rather confusing file structure with an inscrutable hierarchy ...

**Keywords:** categories, collaborative document processing, computer supported cooperative work (CSCW), document business process technologies, native text database

## 20 [Preparing heterogeneous XML for full-text search](#)



Miro Lehtonen

October 2006 ACM Transactions on Information Systems (TOIS), Volume 24 Issue 4

**Publisher:** ACM

Full text available:  [pdf\(228.25 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XML retrieval is facing new challenges when applied to heterogeneous XML documents, where next to nothing about the document structure can be taken for granted. We have developed solutions where some of the heterogeneity issues are addressed. Our fragment ...

**Keyw ords:** XML retrieval, heterogeneous documents, indexing

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